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Commissioner for Patents
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(703) 746-4000

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

04/05/2004

Clifford W. Browning
 Woodward, Emhardt, Naughton, Moriarty & McNett
 Bank One Center/Tower
 111 Monument Circle, Suite 3700
 Indianapolis, IN 46204

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Clifford W. Browning	(Depositor's name)
<i>Clifford W. Browning</i>	(Signature)
June 8, 2004	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,115	07/30/2001	Michael Graetzel	16090-23	2594

TITLE OF INVENTION: SOLID STATE HETEROJUNCTION AND SOLID STATE SENSITIZED PHOTOVOLTAIC CELL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/06/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
HU, SHOUXIANG	2811	257-461000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Clifford W. Browning
2. WOODARD, EMHARDT, MORIARTY, MCNETT & HENRY LLP
3. PATENT AND TRADEMARK ATTORNEYS
4. BANK ONE CENTER TOWER
111 MONUMENT CIRCLE, SUITE 3700
INDIANAPOLIS, INDIANA 46204-5137

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

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(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Ecole Polytechnique Federale
 de Lausanne

Lausanne, Switzerland

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
☒ Publication Fee

☐ Advance Order - # of Copies _____

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☒ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 23-3030 (enclose an extra copy of this form).

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(Date)

Clifford W. Browning 6/8/04
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06/14/2004 YPOLITE2 00000005 09918115

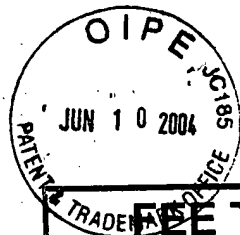
01 FC:1501
 02 FC:1504

1330.00 OP
 300.00 OP

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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WEMMH/SB47 (12/03)

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**FREE TRANSMITTAL
FOR FY 2004**

Effective 01/01/2003. Patent fees are subject to annual revision.

Complete if Known

Application Number	09/918115
Filing Date	07/30/2001
First Named Inventor	Michael Graetzel
Group Art Unit	2811
Examiner Name	Hu, Shouxian
Attorney Docket Number	16090-23

☐ Applicant claims small entity status. See 37 CFR 1.27Total Amount of Payment (\$) 1630.⁰⁰**METHOD OF PAYMENT**☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number 23-3030

Deposit Account Name Woodward, Emhardt, Moriarty, McNett & Henry LLP

The Commissioner is authorized to: (check all that apply)

- ☐ Charge fee(s) indicated below ☒ Credit any overpayments
- ☐ Charge any additional fee(s) during the pendency of this application, excluding the payment of issue fees
- ☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION**1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility Filing Fee	
1002	340	2002	170	Design Filing Fee	
1003	530	2003	265	Plant Filing Fee	
1004	770	2004	385	Reissue Filing Fee	
1005	160	2005	80	Provisional Filing Fee	
SUBTOTAL (1) (\$)					

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee From Below	Fee Paid
	-20** =	X	
Independent Claims	-3** =	X	
Multiple Dependent			

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner's Action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner's Action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	1330
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Petitions related to provisional applications	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other Fee (specify)

Publication Fee

300

* Reduced by Basic Filing Fee Paid

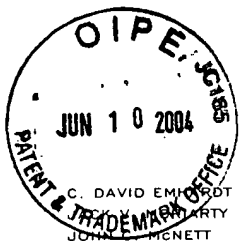
SUBTOTAL (3) (\$)

1630.⁰⁰

SUBMITTED BY		Registration No.		Telephone	
Name (Print/Type)		(Attorney/Agent)		(317) 634-3456	
Signature		32,201		Date	
Clifford W. Browning		June 8, 2004			

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June 8, 2004

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1. Issue fee due on Michael Graetzel application, Ser. No. 918,115 entitled
SOLID STATE HETEROJUNCTION AND SOLID STATE SENSITIZED
PHOTOVOLTAIC CELL - see attached sheet.

\$ 1330.00

2. Publication fee due on patent serial No. 918,115 - see attached sheet

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TOTAL BALANCE TO BE PAID:

\$ 1630.00

Sincerely,

Kari K. Woehler
Kari K. Woehler

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Enclosures

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Clifford W. Browning

Name of Registered Representative

Clifford W. Browning

Signature

June 8, 2004

Date of Signature